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Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: MARK BERCH Examiner #: 59193 Date: 0
Art Unit: 1624 Phone Number: 2-0663 Serial Number: 10776697
Location (Bldg/Room#): 5C01 (Mailbox #): 5C18 Results Format Preferred (circle): PAPER DISK

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: _____

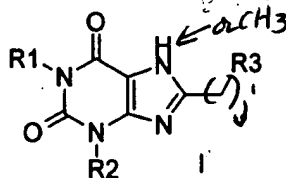
Inventors (please provide full names): _____

Earliest Priority Date: _____

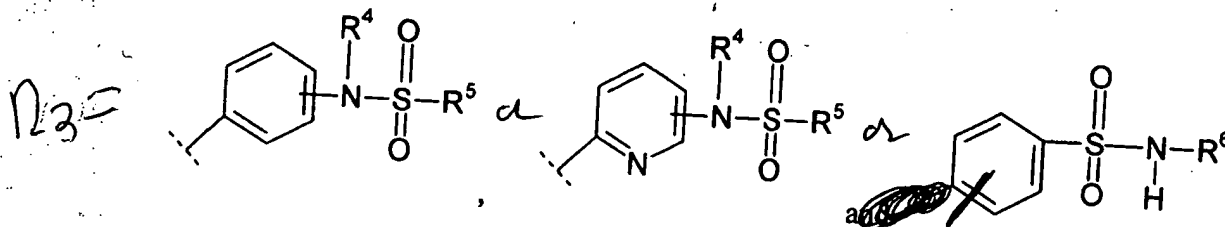
Search Topic:

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

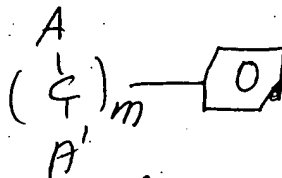
For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.



j = 1-3
A, A' = H/CH₃



R₁ = alkyl or



m = 1-10

R₂ = alkyl or - (C_A)_m - C - (CH₂)_m

RECEIVED
DEC 28 2003
STIC/CHEN DIV. 100

=> d his full

(FILE 'HOME' ENTERED AT 09:55:48 ON 10 JAN 2006)

L1 FILE 'LREGISTRY' ENTERED AT 09:56:15 ON 10 JAN 2006
STRUCTURE

L2 FILE 'REGISTRY' ENTERED AT 10:37:36 ON 10 JAN 2006
1 SEA SSS SAM L1
D SCAN
L3 7 SEA SSS FUL L1
D SCAN

L4 FILE 'HCAPLUS' ENTERED AT 10:40:08 ON 10 JAN 2006
2 SEA ABB=ON PLU=ON L3

L5 FILE 'CAOLD' ENTERED AT 10:40:19 ON 10 JAN 2006
0 SEA ABB=ON PLU=ON L3

L6 FILE 'BEILSTEIN' ENTERED AT 10:40:31 ON 10 JAN 2006
0 SEA SSS SAM L1
L7 0 SEA SSS FUL L1

L8 FILE 'MARPAT' ENTERED AT 10:41:13 ON 10 JAN 2006
0 SEA SSS SAM L1
L9 3 SEA SSS FUL L1
L10 1 SEA ABB=ON PLU=ON L9 NOT L4

FILE HOME

FILE LREGISTRY
LREGISTRY IS A STATIC LEARNING FILE

NEW CAS INFORMATION USE POLICIES, ENTER HELP USAGETERMS FOR DETAILS.

FILE REGISTRY
Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 9 JAN 2006 HIGHEST RN 871542-42-6
DICTIONARY FILE UPDATES: 9 JAN 2006 HIGHEST RN 871542-42-6

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

FILE HCAPLUS

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FILE COVERS 1907 - 10 Jan 2006 VOL 144 ISS 3
FILE LAST UPDATED: 9 Jan 2006 (20060109/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE CAOLD
FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

FILE BEILSTEIN
FILE LAST UPDATED ON OCTOBER 10, 2005

FILE COVERS 1771 TO 2005.
FILE CONTAINS 9,363,954 SUBSTANCES

>>>PLEASE NOTE: Reaction Data and substance data are stored in separate documents and can not be searched together in one query. Reaction data for BEILSTEIN compounds may be displayed immediately with the display codes PRE (preparations) and REA (reactions). A substance answer set retrieved after the search for a chemical name, a compounds with available reaction

information by combining with PRE/FA, REA/FA or more generally with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For more detailed reaction searches BRNs can be searched as reaction partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

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* FOR PRICE INFORMATION SEE HELP COST *

NEW

* PATENT NUMBERS (PN) AND BABS ACCESSION NUMBERS (BABSAN) CAN NOW BE SEARCHED, SELECTED AND TRANSFERRED.
* NEW DISPLAY FORMATS ALLREF, ALLP AND BABSAN SHOW ALL REFERENCES, ALL PATENT REFERENCES, OR ALL BABS ACCESSION NUMBERS FOR A COMPOUND AT A GLANCE.

FILE MARPAT

FILE CONTENT: 1988-PRESENT (VOL 144 ISS 1 (20060101/ED))

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES (COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6949561 27 SEP 2005
DE 1020040544 15 SEP 2005
EP 1582199 05 OCT 2005
JP 2005320486 17 OCT 2005
WO 2005110983 24 NOV 2005

Expanded G-group definition display now available.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

=> file hcaplus

FILE 'HCAPLUS' ENTERED AT 10:42:27 ON 10 JAN 2006

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FILE COVERS 1907 - 10 Jan 2006 VOL 144 ISS 3

FILE LAST UPDATED: 9 Jan 2006 (20060109/ED)

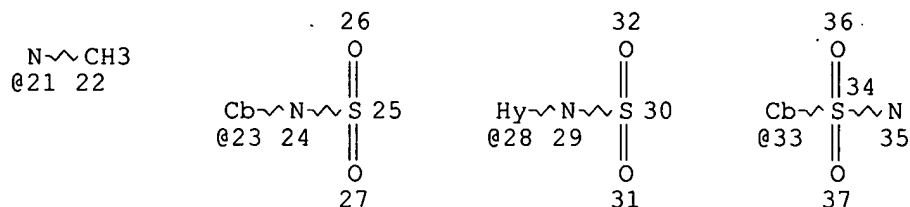
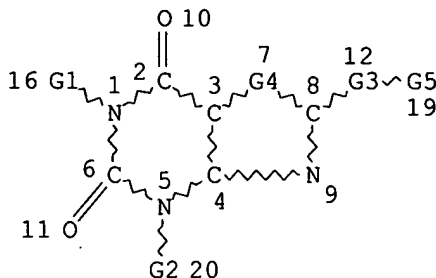
New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que stat 14

L1 STR

Ak @13 Ak~Cb
@14 15 Ak~Cb
@17 18



VAR G1=13/14
VAR G2=13/17
REP G3=(1-3) C
VAR G4=NH/21
VAR G5=23/28/33
NODE ATTRIBUTES:
CONNECT IS E1 RC AT 13
CONNECT IS E2 RC AT 14
CONNECT IS E2 RC AT 17
DEFAULT MLEVEL IS ATOM
GGCAT IS MCY UNS AT 15
GGCAT IS SAT AT 18
GGCAT IS MCY UNS AT 23
GGCAT IS MCY UNS AT 28
GGCAT IS MCY UNS AT 33
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS E6 C AT 15
ECOUNT IS E6 C AT 23
ECOUNT IS E5 C E1 N AT 28
ECOUNT IS E6 C AT 33

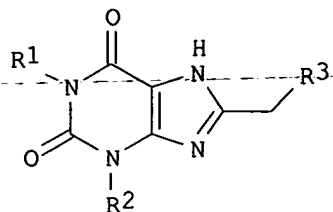
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RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 37

STEREO ATTRIBUTES: NONE
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L4 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L3

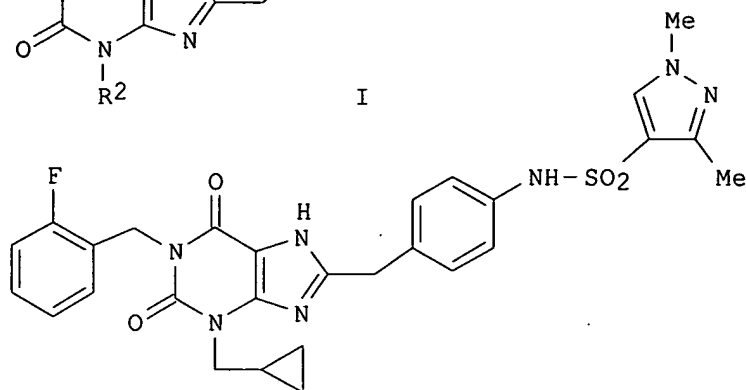
=> d-14 ibib abs hitstr 1-2

L4 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2004:718540 HCAPLUS <<LOGINID::20060110>>
 DOCUMENT NUMBER: 141:225208
 TITLE: Preparation of sulfonamide substituted xanthine
 derivatives as PEPCK inhibitors
 INVENTOR(S): Foley, Louise Helen; Hubby, Nicholas John Silvester;
 Pietranico-Cole, Sherrie Lynn; Yun, Weiya; Dunten,
 Pete William
 PATENT ASSIGNEE(S): F. Hoffmann-La Roche A.-G., Switz.
 SOURCE: PCT Int. Appl., 124 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004074288	A1	20040902	WO 2004-EP1289	20040212
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2004192708	A1	20040930	US 2004-776697	20040211
CA 2514472	AA	20040902	CA 2004-2514472	20040212
EP 1599477	A1	20051130	EP 2004-710346	20040212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRIORITY APPLN. INFO.:			US 2003-448562P	P 20030219
			US 2003-448652P	P 20030219
			US 2004-536561P	P 20040115
			WO 2004-EP1289	W 20040212
OTHER SOURCE(S):	MARPAT	141:225208		
GI				



I



II

AB Sulfonamide substituted xanthine derivs. of formula I [R1 = alkyl, phenylalkyl, halophenyl-alkyl; R2 = alkyl, cycloalkyl-alkyl; R3 = (substituted) sulfonamide Ph or pyridyl], or pharmaceutically acceptable salts or prodrugs thereof, are prepared. The compds. show activity as modulators of gluconeogenesis. Pharmaceutical compns. containing I are described. Thus, II was prepared from 4-amino-2,6-dihydroxypyrimidine, 2-fluorobenzyl, (4-tert-butoxycarbonylaminophenyl)acetic acid, cyclopropylmethyl bromide and 5-chloro-1,3-dimethylpyrazole-4-sulfonyl chloride. The IC₅₀ of II was 0.15 μ M in PEPCK enzymic assay.

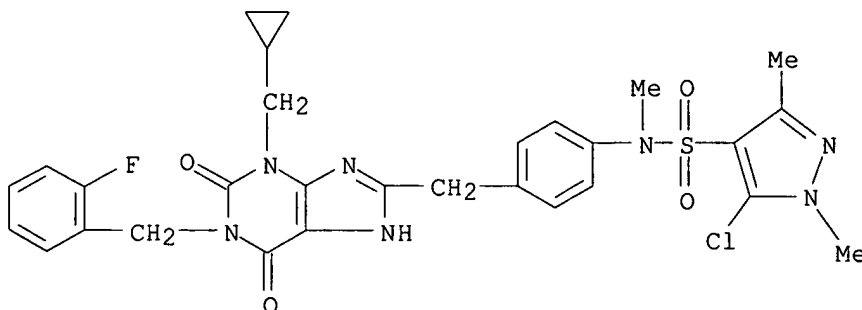
IT **748147-45-7P 748147-63-9P**

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of sulfonamide xanthine derivs. as PEPCK inhibitors for the treatment of type 2 diabetes)

RN 748147-45-7 HCAPLUS

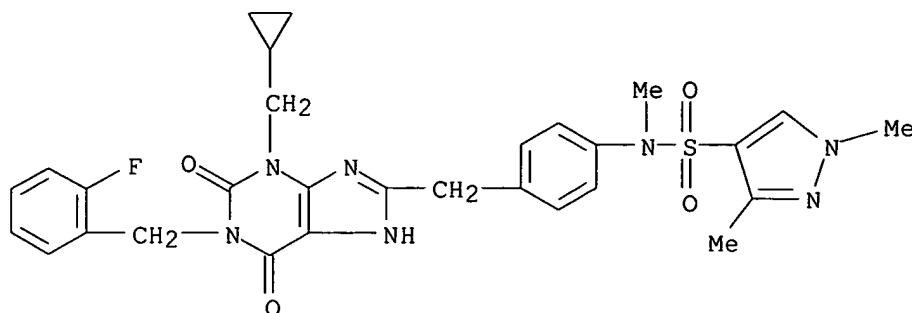
CN 1H-Pyrazole-4-sulfonamide, 5-chloro-N-[4-[[3-(cyclopropylmethyl)-1-[(2-fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl)methyl]phenyl]-N,1,3-trimethyl- (9CI) (CA INDEX NAME)



RN 748147-63-9 HCAPLUS

CN 1H-Pyrazole-4-sulfonamide, N-[4-[[3-(cyclopropylmethyl)-1-[(2-

fluorophenyl)methyl]-2,3,6,7-tetrahydro-2,6-dioxo-1H-purin-8-yl)methyl]phenyl]-N,1,3-trimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:168999 HCAPLUS <<LOGINID::20060110>>

DOCUMENT NUMBER: 122:81388

TITLE: (Styryl)xanthine-derivatives adenosine A2 receptor antagonists

INVENTOR(S): Suzuki, Fumio; Shimada, Junichi; Koike, Nobuaki; Kase, Hiroshi; Nakamura, Joji; Shiozaki, Shizaki; Nonaka, Hiromi

PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan

SOURCE: Can. Pat. Appl., 69 pp.

CODEN: CPXXEB

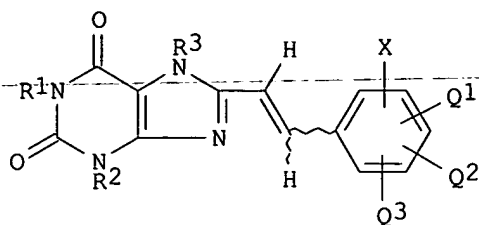
DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CA 2112031	AA	19940625	CA 1993-2112031	19931221
JP 06239862	A2	19940830	JP 1993-316132	19931216
JP 3165769	B2	20010514		
NO 9304792	A	19940627	NO 1993-4792	19931223
EP 607607	A1	19940727	EP 1993-120842	19931223
EP 607607	B1	19960918		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
AT 143019	E	19961015	AT 1993-120842	19931223
US 5670498	A	19970923	US 1995-527497	19950913
PRIORITY APPLN. INFO.:			JP 1992-344116	A 19921224
			US 1993-171602	B1 19931222
OTHER SOURCE(S):		MARPAT 122:81388		
GI				



I

AB The title compds. [I; Q¹-Q³ = H, lower alkyl, lower alkoxy, halogen; R¹-R³ = H, lower alkyl; X = COR⁴, SO₂R⁵; R⁴ = H, HO, lower alkyl, lower alkoxy; R⁵ = (un)substituted NH₂, etc.], useful as adenosine A₂ receptor antagonists for the treatment of Parkinson's disease (no data), depression (no data), etc., are prepared and I-containing formulations presented. Thus, (E)-8-(3-acetylstyryl)-1,3-diethyl-7-methylxanthine, m.p. 221.4-221.8°, was prepared and demonstrated 85% inhibition. of 3H-CGS 21680 binding to rat brain-derived adenosine A₂ receptors at 10⁻⁷ mol (K_i = 13 nM).

IT 160434-10-6P 160434-11-7P 160434-15-1P

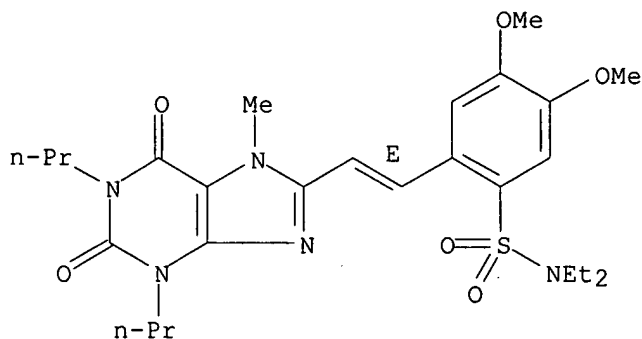
160434-23-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(styrylxanthine adenosine A₂ receptor antagonists)

RN 160434-10-6 HCAPLUS

CN Benzenesulfonamide, N,N-diethyl-4,5-dimethoxy-2-[2-(2,3,6,7-tetrahydro-7-methyl-2,6-dioxo-1,3-dipropyl-1H-purin-8-yl)ethenyl]-, (E)- (9CI) (CA INDEX NAME)

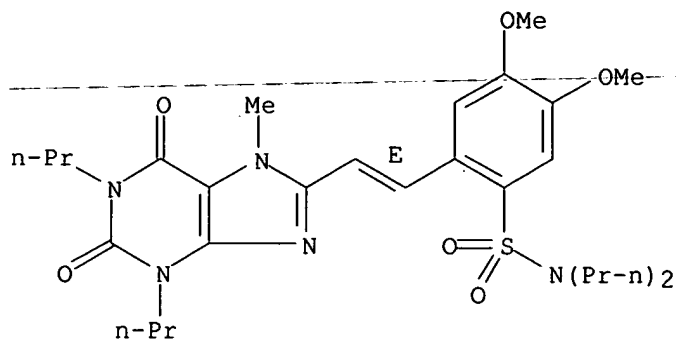
Double bond geometry as shown.



RN 160434-11-7 HCAPLUS

CN Benzenesulfonamide, 4,5-dimethoxy-N,N-dipropyl-2-[2-(2,3,6,7-tetrahydro-7-methyl-2,6-dioxo-1,3-dipropyl-1H-purin-8-yl)ethenyl]-, (E)- (9CI) (CA INDEX NAME)

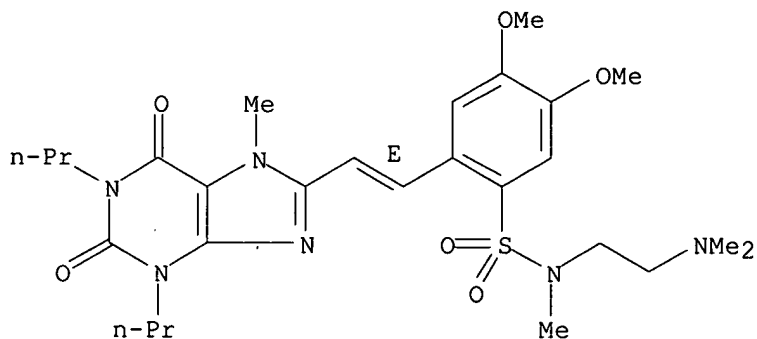
Double bond geometry as shown.



RN 160434-15-1 HCAPLUS

CN Benzenesulfonamide, N-[2-(dimethylamino)ethyl]-4,5-dimethoxy-N-methyl-2-[2-(2,3,6,7-tetrahydro-7-methyl-2,6-dioxo-1,3-dipropyl-1H-purin-8-yl)ethenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 160434-23-1 HCAPLUS

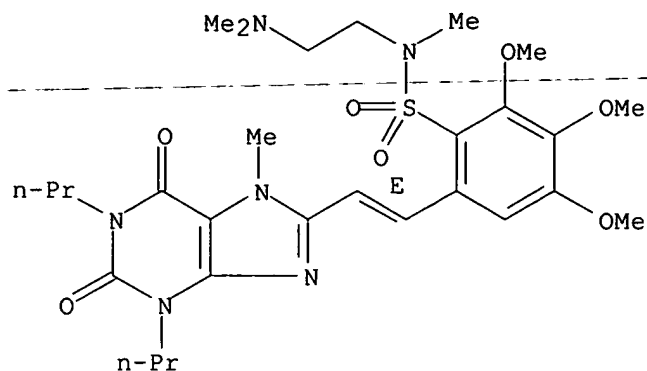
CN Benzenesulfonamide, N-[2-(dimethylamino)ethyl]-2,3,4-trimethoxy-N-methyl-6-[(1E)-2-(2,3,6,7-tetrahydro-7-methyl-2,6-dioxo-1,3-dipropyl-1H-purin-8-yl)ethenyl]-, (2E)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 160434-22-0

CMF C28 H42 N6 O7 S

Double bond geometry as shown.

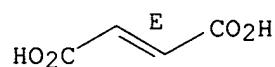


CM 2

CRN 110-17-8

CMF C4 H4 O4

Double bond geometry as shown.



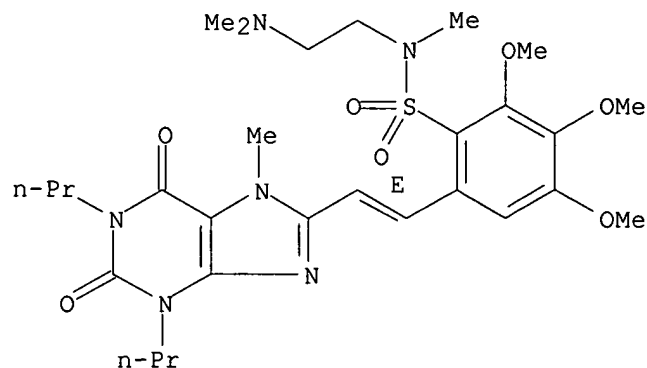
IT 160434-22-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(styrylxanthine adenosine A2 receptor antagonists)

RN 160434-22-0 HCAPLUS

CN Benzenesulfonamide, N-[2-(dimethylamino)ethyl]-2,3,4-trimethoxy-N-methyl-6-
[2-(2,3,6,7-tetrahydro-7-methyl-2,6-dioxo-1,3-dipropyl-1H-purin-8-
yl)ethenyl]-, (E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



=> file beilstein

FILE 'BEILSTEIN' ENTERED AT 10:43:37 ON 10 JAN 2006

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with RX/FA. The BEILSTEIN Registry Number (BRN) is the link
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detailed reaction searches BRNs can be searched as reaction
partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

* PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST. *
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NEW

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ALL PATENT REFERENCES, OR ALL BABS ACCESSION NUMBERS FOR A
COMPOUND AT A GLANCE.

=> file marpat

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FILE CONTENT: 1988-PRESENT (VOL 144 ISS 1 (20060101/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6949561 27 SEP 2005
DE 1020040544 15 SEP 2005
EP 1582199 05 OCT 2005
JP 2005320486 17 OCT 2005
WO 2005110983 24 NOV 2005

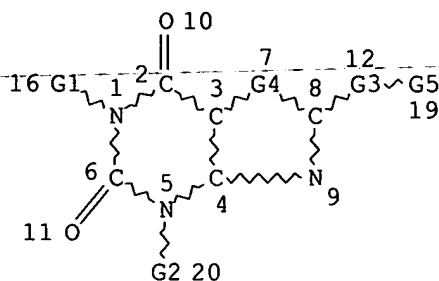
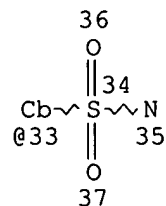
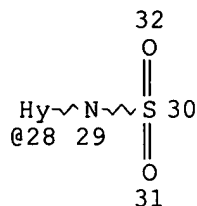
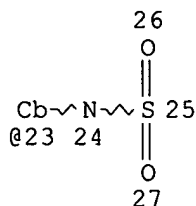
Expanded G-group definition display now available.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

=> d que stat l10

L1 STR

Ak @13

Ak~Cb
@14 15Ak~Cb
@17 18N~CH3
@21 22

VAR G1=13/14
 VAR G2=13/17
 REP G3=(1-3) C
 VAR G4=NH/21
 VAR G5=23/28/33
 NODE ATTRIBUTES:
 CONNECT IS E1 RC AT 13
 CONNECT IS E2 RC AT 14
 CONNECT IS E2 RC AT 17
 DEFAULT MLEVEL IS ATOM
 GGCAT IS MCY UNS AT 15
 GGCAT IS SAT AT 18
 GGCAT IS MCY UNS AT 23
 GGCAT IS MCY UNS AT 28
 GGCAT IS MCY UNS AT 33
 DEFAULT ECLEVEL IS LIMITED
 ECOUNT IS E6 C AT 15
 ECOUNT IS E6 C AT 23
 ECOUNT IS E5 C E1 N AT 28
 ECOUNT IS E6 C AT 33

GRAPH ATTRIBUTES:
 RING(S) ARE ISOLATED OR EMBEDDED
 NUMBER OF NODES IS 37

STEREO ATTRIBUTES: NONE
 L3 7 SEA FILE=REGISTRY SSS FUL L1
 L4 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L3
 L9 3 SEA FILE=MARPAT SSS FUL L1
 L10 1 SEA FILE=MARPAT ABB=ON PLU=ON L9 NOT L4

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L10 ANSWER 1 OF 1 MARPAT COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 134:320889 MARPAT <<LOGINID::20060110>>

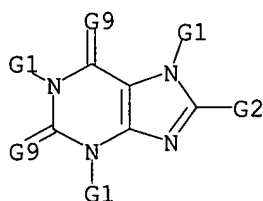
TITLE: Remedy for eating disorders
 INVENTOR(S): Hara, Takuji; Ishikawa, Yumiko; Ryomoto, Tetsuya
 PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd, Japan
 SOURCE: PCT Int. Appl., 24 pp.

CODEN: PIXXD2

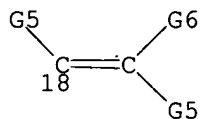
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WO 2001032182	A1	20010510	WO 2000-JP7586	20001027
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG CA 2388176 AA 20010510 CA 2000-2388176 20001027 AU 2000079620 A5 20010514 AU 2000-79620 20001027 EP 1234576 A1 20020828 EP 2000-970169 20001027 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL US 2005176739 A1 20050811 US 2005-104623 20050413 PRIORITY APPLN. INFO.: JP 1999-310138 19991029 WO 2000-JP7586 20001027 US 2002-111446 20020425				
AB Remedies for eating disorders contain xanthine derivs. (Markush structure given) as the active ingredients. Compds. of this invention increased food intake in rats. Formulations are given.				

MSTR 1



G1 = Et
 G2 = 18



G6 = Ph (opt. substd. by (1-3) G11)

G9 = 0

G11 = dialkylaminosulfonyl <each alkyl containing 1-6 C>

Patent location: claim 1

Note: or pharmacologically acceptable salts

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT